

# Theme Implementation Plan for Governmental Units, and Administrative and Statistical Boundaries Theme

Activity Report for Fiscal Year 2018

# U.S. Census Bureau

**Federal Geographic Data Committee (FGDC)** 

October 31, 2018



# Governmental Units, and Administrative and Statistical Boundaries Theme Implementation Plan FY18 Activity Report



#### **Overview**

As part of meeting the requirements under OMB Circular A-16 Supplemental Guidance and OMB Circular A-16 Appendix E - NGDA Data Themes, Definitions, and Lead Agencies for NGDA Portfolio Management and NGDA Theme Management, NGDA Themes Leads for a Theme, in coordination with associated NGDA Dataset Managers, have developed Theme Strategic Plans and corresponding implementation plans for each Theme in the NGDA Portfolio. This report provides information on implementing the goals, objectives, and actions outlined in the Theme's Strategic Plan (link below). The report includes information on Theme Personnel (Table 1), National Geospatial Data Asset (NGDA) datasets associated with the Theme (Table 2), and the human and financial resources needed to manage the Theme (Table 3). Table 4 provides a status update on progress made in in the current reporting period toward meeting Theme Strategic Plan goals and objectives. Table 5 provides details on the Theme Implementation Plan.

## **Theme Strategic Plan**

https://communities.geoplatform.gov/ngda-govunits/wp-content/uploads/2018/04/Gov Units Theme Strategic Plan 20161001.pdf

#### **Theme Personnel**

Theme personnel play a vital role in the operation and maintenance of a Theme. They are "individuals who provide interdepartmental leadership and coordination at the NGDA Theme level. They work with component NGDA Dataset Managers to develop standards and provide guidance. The NGDA Theme Lead, or designee, chairs the NGDA Theme's Thematic Committee and manages the annual process of providing NGDA Dataset collaboration and funding recommendations to the FGDC Steering Committee for those NGDA Datasets within their NGDA Theme. Additionally, the NGDA Theme Lead reports to the Executive NGDA Theme Champion and the FGDC Coordination Group on the NGDA Theme's activities and investments (both current and planned)." Table 1 provides a summary of current Theme Personnel followed by Table 2 that lists the NGDA Datasets that comprise the Theme.

Theme Personnel		
Theme Lead:	Dierdre Bevington-Attardi	
Theme Lead Agency:	U.S. Census Bureau	
<b>Executive Theme Champion:</b>	Deirdre Bishop	
<b>Executive Champion Agency:</b>	U.S. Census Bureau	

Table 1. Personnel Involved in Theme Management.

Governmental Units, and Administrative and	
Statistical Boundaries Theme NGDA Datasets	NGDA Agency
116th Congressional District	Department of Commerce/ U.S. Census
2010 Census 5-digit ZIP Code Tabulation Area <sup>1</sup>	Department of Commerce/ U.S. Census
2010 Census Population & Housing Unit Counts	Department of Commerce/ U.S. Census
2010 Census Public Use Microdata Area	Department of Commerce/ U.S. Census
2010 Census Urban Area	Department of Commerce/ U.S. Census
2010 Census Urban Growth Area	Department of Commerce/ U.S. Census
2010 Census Voting District	Department of Commerce/ U.S. Census
Alaska Native Regional Corporation (ANRC)	Department of Commerce/ U.S. Census
American Indian Tribal Subdivision	Department of Commerce/ U.S. Census
American Indian/Alaska Native/Native Hawaiian	Department of Commerce/ U.S. Census
BLM National Administrative Unit Boundary Polygons	Department of Interior/ Bureau of Land
and Office Points <sup>2</sup>	Management (BLM)
Block Group	Department of Commerce/ U.S. Census
Census Block	Department of Commerce/ U.S. Census
Census Bureau Regional Office Boundaries	Department of Commerce/ U.S. Census
Census Tract	Department of Commerce/ U.S. Census
Combined New England City and Town Area	Department of Commerce/ U.S. Census
Combined Statistical Area	Department of Commerce/ U.S. Census
Consolidated City	Department of Commerce/ U.S. Census
County and Equivalent	Department of Commerce/ U.S. Census
County Subdivision	Department of Commerce/ U.S. Census
Elementary School Districts	Department of Commerce/ U.S. Census
EPA Facility Locations and Regional Boundaries	U.S. Environmental Protection Agency (EPA)
Estate (U.S. Virgin Islands)	Department of Commerce/ U.S. Census
HUD Entitlement Grantee Jurisdiction	Department of Housing and Urban
International Boundary United States Mexico Minute	Department of State/ International Boundary
Metropolitan Division	Department of Commerce/ U.S. Census
Metropolitan Statistical Area/Micropolitan Statistical	Department of Commerce/ U.S. Census
National Weather Service County Warning Area	Department of Commerce/ National Oceanic
Boundaries <sup>3</sup>	and Atmospheric Administration (NOAA)
NECTA Division	Department of Commerce/ U.S. Census
New England City and Town Area	Department of Commerce/ U.S. Census
Place <sup>4</sup>	Department of Commerce/ U.S. Census

<sup>&</sup>lt;sup>1</sup> All dataset names proceeded with the "2010" designation for current year or vintage refers to datasets and corresponding results of the 2010 decennial census exclusively except for the "Urban Growth Area".

<sup>&</sup>lt;sup>2</sup> BLM Administrative Unit Boundary Polygons and BLM Administrative Unit Office Points were merged into one NGDA effective FY18-Q3.

<sup>&</sup>lt;sup>3</sup> NGDA removed effective June 30, 2017.

<sup>&</sup>lt;sup>4</sup> "Place" refers to Incorporated Place or Census Designated Place (CDP).

Secondary School District	Department of Commerce/ U.S. Census
State and Equivalent	Department of Commerce/ U.S. Census
State Legislative District (SLD) Lower Chamber	Department of Commerce/ U.S. Census
State Legislative District (SLD) Upper Chamber	Department of Commerce/ U.S. Census
	Bureau
Subbarrio (Subminor Civil Division)	Department of Commerce/ U.S. Census
	Bureau
Tribal Block Group	Department of Commerce/ U.S. Census
Tribal Census Tract	Department of Commerce/ U.S. Census
Unified School Districts	Department of Commerce/ U.S. Census
United States Canadian Boundary	International Boundary Commission (IBC)

Table 2. NGDA Datasets within the Theme.

### **Human and Financial Resources Needed for Theme Management**

The following table provides an estimate of resources needed for managing this Theme. It includes different activities, the roles that support them, as well as an estimated decimal Full Time Equivalent (FTE) and FTE grade. This estimate does not include the resources required for the agency to develop and maintain the NGDA Dataset(s) that make up the Theme to meet the agency's core mission requirements.

#### Reporting Period for Human and Financial Resources: October 2017 – September 2018

Description of Theme Management Activities	Role		FTE Grade
A–16 NGDA Theme management (e.g., attend meetings, review NGDA documents, develop Theme Strategic & Implementation Plans, etc.)	Theme Lead	0.36	GS-13
A–16 NGDA Theme management	Theme Lead Coordinator	0.40	GS-11

Table 3. Human and Financial Resources Needed for Theme Management.

<sup>&</sup>lt;sup>5</sup> A full-time Federal employee was available a maximum of 2,000 hours during the inclusive period of October 1, 2017 – September 30, 2018 assuming a Monday-Friday schedule with 8-hour workdays and not counting Federal Holidays. The FTE was determined by taking the actual number of hours worked in support of Theme Management divided by 2,000 hours, rounded to the nearest 0.01.

# **Progress against Goals and Objectives**

The following table shows the status of progress made toward achieving the Theme's Strategic Plan goals and objectives since the last reporting period. Status categories include 'Not Started' for those activities that have not gotten underway in the reporting period; 'In Progress' for those activities underway which will continue into the next year; 'Complete' for the activities finished, or 'Recurring (completed for the current reporting period).

Goals and Objectives undertaken during FY18	Status
Goal 1: Ensure the effective development and maintenance of the	
Governmental Units, and Administrative and Statistical Boundaries datasets.	
Objective 1.1: Develop, maintain, and distribute authoritative	Recurring (completed
governmental units (legal) datasets.	for FY18)- <i>a</i>
Objective 1.2: Develop, maintain, and distribute authoritative	In Progress
statistical boundary datasets.	
Objective 1.3: Develop, maintain, and distribute authoritative	Recurring (completed
administrative boundary datasets.	for FY18)- <i>b</i>
Objective 1.4: Maintain topological relationships and quality	In Progress
standards for all geographic units and their associated NGDA	
Datasets in the Governmental Units Theme.	
Objective 1.5: Complete annual Lifecycle Maturity Assessments	Recurring (completed
(LMAs).	for FY18)
Goal 2: Facilitate the sharing and distribution of Governmental Units, and	
Administrative and Statistical Boundaries Theme datasets.	
Objective 2.1: Publish metadata on Data.gov and the Geospatial	Recurring (completed
Platform (GeoPlatform) to facilitate discovery and use of theme	for FY18)- <i>c</i>
datasets.	
Objective 2.2: Provide reliable Web Map Services (WMS) with	Recurring (completed
quality metadata to improve the GeoPlatform experience.	for FY18)- <i>d</i>
Goal 3: Coordinate the Governmental Units, and Administrative and	
Statistical Boundaries Theme among stakeholders.	
Objective 3.1: National Boundary Group (NBG), formally designated	In Progress
as an FGDC working group in 2014, leads the development of	
nationally consistent boundaries that are integrated using the same	
geographic base. Federal boundary sources will be consistent,	
accurate, and integrated.	
Objective 3.2: The Tribal Boundaries Subgroup, formally designated	In Progress
as a NBG working group in 2015, identifies the data and	
communication needs for agencies and governments using tribal	
boundary data. These agencies include the Tribal governments,	
Department of Interior (DOI), the Census Bureau, Federal Emergency	
Management Agency (FEMA), and Forest Service (USFS).	
Objective 3.3: The Federal Lands Working Subgroup (FLWG)	In Progress
develops a data standard and the organizational strategies for the	
aggregation of federally owned lands in a spatial database.	

Goals and Objectives undertaken during FY18	Status
Objective 3.4: Continue collaboration between Census Bureau, the	In Progress
International Boundary Commission (IBC) and the International	
Boundary and Water Commission (IBWC) to complete the update of	
all international boundaries in Census Bureau's Digital Geographic	
Database of the United States.	
Objective 3.5: The Governmental Units, and Administrative and	In Progress
Statistical Boundaries Theme community leverages the GeoPlatform	
to increase community membership and facilitate dataset	
management and communication across the theme.	

**Table 4. Theme Implementation Plan Progress Status.** 

Notes for Goals and Objectives undertaken during FY18:

- a. The status of *Recurring* applies to 85% or 11 of 13 authoritative governmental units (legal) datasets and a majority of the actions reported in Objective 1.1 resulted from the Boundary and Annexation Survey (BAS). The status of *Completed* applies to specific actions relating to 2 of 13 datasets.
- b. The status of Recurring applies to 72% or 8 of 11 authoritative administrative boundary datasets and a majority of the actions reported in Objective 1.3. The status of *Completed* applies to 2 of 11 datasets and specific actions in Phase 1 of the 2020 Census Redistricting Data Program (RDP) and an action to remove the National Weather Service County Warning Area Boundaries as an NGDA.
- c. The status of *Recurring* applies to 97% or 38 of 39 authoritative governmental units datasets and a majority of actions reported in Objective 2.1.
- d. The status of *Recurring* applies to 50% of the actions reported in Objective 2.2. All 34 of Census Bureau's NGDAs have geospatial web services. All other actions reported in Objective 2.2 are *In Progress*.

<u>Strategic Goal 1</u> – Ensure the effective development and maintenance of the Governmental Units, and Administrative and Statistical Boundaries datasets.

**Objective 1.1**: Develop, maintain, and distribute authoritative governmental units (legal) datasets.

Anticipated Outcomes: Legal entities originate from legal actions, treaties, statutes, ordinances, resolutions, and court decisions. Authoritative Governmental Units Theme datasets will contain up-to-date information about the boundaries and names of all governmental units in the United States. The authoritative boundary information provides the framework for the tabulation and presentation of collected data during the decennial and economic censuses, and annual estimates and surveys such as the Population Estimates Program (PEP) and the American Community Survey (ACS).

<u>Agencies, Bureaus, and Offices Involved</u>: All dataset managers and program managers of legal boundary datasets, the Census Bureau's Tribal Program Manager, the Census Bureau's Geographic Customer Service Branch, the Census Bureau's Geographic Standards, Criteria, and Quality Branch, Census Bureau's Geography Division Chief, and the Boundary and Annexation Survey (BAS) Program Manager.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>1.1.1.</b> Unless otherwise noted in other actions listed	Maintained and	Number of legal boundary	All dataset and	Q4 each
below, maintain and update all legal boundary data	updated legal	datasets checked for currency,	program	year
as needed according to program schedules. Program	boundary	accuracy of attributes, and	managers of	
schedules pertaining to Census Bureau datasets are	datasets not	updated.	these specified	
detailed in Appendix 1.	covered		legal boundary	
	elsewhere in this		datasets	
	plan.			
Agency and/or Stakeholder	Activities Through FY18-Q4			
Theme Lead	1.1.1. No additional activities to report.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)	
1.1.1. (cont.) Unless otherwise noted in other actions listed below, maintain and update all legal boundary data as needed according to program schedules. Program schedules pertaining to Census Bureau datasets are detailed in	BAS updates received are reflected in almost all of the Census Bureau's data tabulation and other agency programs.	Number of all required updates completed. Accuracy of the update indicated by the number of subsequent corrections required.	BAS Program Manager	October of each year for legal boundaries  August of each year for non-legal boundaries	
Appendix 1.	Posting of TIGER/Line Shapefiles. Delivery of dataset to internal Census Bureau tabulation processing.	Creation of the spatial dataset (shapefiles) with the BAS updates.	Decennial Information Technology Division/BAS Program Manager/Geographic Customer Service Branch	August of each year	
Agency and/or Stakeholder	Activities Through FY18-Q4				
BAS Program Manager	<b>1.1.1.</b> As of September 30, 2018, the Census Bureau has processed updates from over 5,000 governments via both digital BAS submissions (both regular digital submissions and Geographic Update Partnership Software (GUPS) submissions) and paper BAS submissions for the 2018 BAS.				
Decennial Information Technology Division/BAS Program Manager/Geographic Customer Service Branch	<b>1.1.1.</b> All 2018 TIGER/Line Shapefiles posted to Census Bureau's website. The 2018 edition of the datasets were delivered for internal Census Bureau tabulation processing (completed in September 2018).				

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
1.1.1. (cont.) Unless otherwise noted in other actions listed below, maintain and update all legal boundary data as needed according to program schedules. Program schedules pertaining to Census Bureau datasets are detailed in Appendix 1.	Identify survey information and data requirements for each boundary segment.  Colorado River <sup>6</sup> Rio Grande River <sup>7</sup> Land boundary between the Rio Grande River and the Pacific Ocean International Maritime Boundary in the Gulf of Mexico <sup>8</sup> International Maritime Boundary in the Pacific Ocean <sup>9</sup>	Percentage of survey information and data requirements identified.	International Boundary and Water Commission (IBWC)	As frequently as necessary (if justifiable), but at intervals less than ten years
Agency and/or Stakeholder	Activities Through FY18-Q4			
IBWC	1.1.1. No activity to report.			

<sup>&</sup>lt;sup>6</sup> Colorado River from the centerline of the Colorado River, at the U.S. State of California, U.S. State of Arizona, Mexico Baja California State, and the Colorado River intersection, wherever it may be located, to the centerline of the Colorado River at the U.S. State of Arizona, Mexico Baja California State, Mexico Sonora State, and the Colorado River intersection, wherever it may be located.

<sup>&</sup>lt;sup>7</sup> Rio Grande River from the centerline of the Rio Grande River at the U.S. State of New Mexico, U.S. State of Texas, Mexico Chihuahua State, and the Rio Grande River intersection, wherever it may be located, to the centerline of the mouth of the Rio Grande River, U.S. State of Texas, Mexico Tamaulipas State, and the Gulf of Mexico intersection, wherever it may be located.

<sup>&</sup>lt;sup>8</sup> International Maritime Boundary in the Gulf of Mexico from the centerline of the mouth of the Rio Grande River, U.S. State of Texas, Mexico Tamaulipas State, and the Gulf of Mexico intersection, wherever it may be located to the Fixed Point/Punto Fijo, located at North 25° 57′ 22.18″ West 97° 08′ 19.76″, extending 12 nautical miles to a point located at North 25° 58′ 30.57″ West 96° 55′ 27.37″.

<sup>&</sup>lt;sup>9</sup> United States/Mexico International Maritime Boundary in the Pacific Ocean from a Fixed Point/Punto Fijo #1 located at North 32° 32′ 03.19″ West 117° 07′ 25.70″ to a Fixed Point/Punto Fijo #2 located at North 32° 31′ 38.79″ West 117° 14′ 17.49″ to a Fixed Point/Punto Fijo #3 located at North 32° 33′ 12.04″ West 117° 15′ 46.76″ to a Fixed Point/Punto Fijo #4 located at North 32° 34′ 20.93″ West 117° 21′ 58.39″ to a Fixed Point/Punto Fijo #5 located at North 32° 35′ 22.11″ West 117° 27′ 49.42″.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
1.1.1. (cont.) Unless otherwise noted in other actions listed below, maintain and update all legal boundary data as needed according to	Colorado River     Rio Grande River     Land boundary between the Rio Grande River and the Pacific Ocean     International Maritime Boundary in the Gulf of Mexico     International Maritime Boundary in the Pacific Ocean	Percentage of resurvey completed.	IBWC	As frequently as necessary (if justifiable), but at intervals less than ten years
program schedules. Program schedules pertaining to Census Bureau datasets are detailed in Appendix 1.	<ul> <li>Colorado River</li> <li>Rio Grande River</li> <li>Land boundary between the Rio Grande River and the Pacific Ocean</li> <li>International Maritime Boundary in the Gulf of Mexico</li> <li>International Maritime Boundary in the Pacific Ocean</li> </ul>	Percentage of the joint report drafted.	IBWC	As frequently as necessary (if justifiable), but at intervals less than ten years
Agency and/or Stakeholder	Activities Through FY18-Q4			
IBWC	1.1.1. No activity to report.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
1.1.1. (cont.) Unless otherwise noted in other actions listed below, maintain and update all legal boundary data	<ul> <li>Gather and compile survey information for each boundary segment.</li> <li>Colorado River</li> <li>Rio Grande River</li> <li>Land boundary between the Rio Grande River and the Pacific Ocean</li> <li>International Maritime Boundary in the Gulf of Mexico</li> <li>International Maritime Boundary in the Pacific Ocean</li> </ul>	Percentage of survey information and data gathered and compiled.	IBWC	As frequently as necessary (if justifiable), but at intervals less than ten years
as needed according to program schedules. Program schedules pertaining to Census Bureau datasets are detailed in Appendix 1.	Review and validate survey information for each boundary segment.  Colorado River Rio Grande River Land boundary between the Rio Grande River and the Pacific Ocean International Maritime Boundary in the Gulf of Mexico International Maritime Boundary in the Pacific Ocean	Percentage of survey information and data reviewed and validated.	IBWC	As frequently as necessary (if justifiable), but at intervals less than ten years
Agency and/or Stakeholder	Activities Through FY18-Q4			
IBWC	1.1.1. No activity to report.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
1.1.1. (cont.) Unless otherwise noted in other actions listed below, maintain and update all legal boundary data	<ul> <li>Colorado River</li> <li>Rio Grande River</li> <li>Land boundary between the Rio Grande River and the Pacific Ocean</li> <li>International Maritime Boundary in the Pacific Ocean</li> <li>International Maritime Boundary in the Pacific Ocean</li> </ul>	Percentage of joint report drafted.	IBWC	As frequently as necessary (if justifiable), but at intervals less than ten years
as needed according to program schedules. Program schedules pertaining to Census Bureau datasets are detailed in Appendix 1.	<ul> <li>Approval of joint report for each boundary segment.</li> <li>Colorado River</li> <li>Rio Grande River</li> <li>Land boundary between the Rio Grande River and the Pacific Ocean</li> <li>International Maritime Boundary in the Gulf of Mexico</li> <li>International Maritime Boundary in the Pacific Ocean</li> </ul>	Report approval.	IBWC	As frequently as necessary (if justifiable), but at intervals less than ten years
Agency and/or Stakeholder	Activities Through FY18-Q4			
IBWC	<b>1.1.1.</b> No activity to report.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
1.1.1. (cont.) Unless otherwise noted in other actions listed below, maintain and update all legal boundary data as needed according to program schedules.	<ul> <li>Draft and publish Minute Report for each boundary segment.</li> <li>Colorado River</li> <li>Rio Grande River</li> <li>Land boundary between the Rio Grande River and the Pacific Ocean</li> <li>International Maritime Boundary in the Gulf of Mexico</li> <li>International Maritime Boundary in the Pacific Ocean</li> </ul> Approval of the Minute Report for each boundary segment.	Percentage of Minute Report drafted.  Minute Report	IBWC	As needed  As needed
Program schedules pertaining to Census Bureau datasets are detailed in Appendix 1.  Agency and/or	<ul> <li>Colorado River</li> <li>Rio Grande River</li> <li>Land boundary between the Rio Grande River and the Pacific Ocean</li> <li>International Maritime Boundary in the Gulf of Mexico</li> <li>International Maritime Boundary in the Pacific Ocean</li> </ul> Activities Through FY18-Q4	approved.		
Stakeholder				
IBWC	<b>1.1.1.</b> No activity to report.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>1.1.1. (cont.)</b> Unless otherwise noted in other actions listed below, maintain and update all legal boundary data as needed according to program schedules. Program schedules pertaining to Census Bureau datasets are detailed in Appendix 1.	Publish updated shapefile of the United States/Mexico International Boundary followed with an update of the metadata data on Data.gov/Geoplatform.gov.	Update posted.	IBWC	As needed
Agency and/or Stakeholder	Activities Through FY18-Q4			
IBWC	<b>1.1.1.</b> No activity to report.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>1.1.2.</b> Request that tribal, state, county, and	Annual response	Percentage of participants	BAS Program	Q2 of each
local governments increase their levels of participation in the review and update of their legal boundaries annually through the Census Bureau's Boundary and Annexation	information is mailed/emailed to participants.	contacted.	Manager	year
Survey (BAS). Increase the number of states with formal cooperative agreements to provide boundary and annexation information.	Non-Response follow-up.	Percentage of BAS responses received based on the overall number of BAS respondents contacted and invited to participate in the BAS.	BAS Program Manager	Q3 of each year
	State Data Center non- response follow-up.	Percentage of BAS responses received based on the overall number of BAS respondents requiring follow-up.	BAS Program Manager	Q3 of each year
	Year-to-year increase in the number of states with formal cooperative agreements.	Number of cooperative agreements completed.	BAS Program Manager	Q4 of each year
Agency and/or Stakeholder	Activities Through FY18-Q4			
BAS Program Manager	1.1.2. As of September 30, 2018, the 2018 BAS response rate for eligible legal governments is 89%, exceeding the 2018 BAS performance goal of an 85% response rate. State Data Centers and the National Processing Center assisted with BAS non-response follow up in FY18.  The Census Bureau has engaged in conversations with lowa, Vermont, and Kansas to enter into BAS State agreements beginning with the 2018 BAS.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>1.1.3.</b> Secure sufficient funding to conduct the annual	Sufficient	Sufficient annual funding	Census Bureau's	Q1 of each
BAS.	annual funding	reflected in budget	Geography	year
	reflected in appropriation.	documentation.	Division Chief in coordination	
	арргорпасіоні		with BAS	
			Program	
			Manager	
<b>1.1.4.</b> Give the highest elected officials a final	All Highest	Number of notifications sent.	BAS Program	FY20-Q4
opportunity to review their official legal boundaries	Elected		Manager	
before the 2020 Census tabulation through the Boundary Validation Program (BVP) beginning in the	Officials notified.			
FY20-Q2.	notinea.			
	Responses	Number of responses received.	BAS Program	FY20-Q4
	received from		Manager	
	highest elected officials or their			
	designee.			
Agency and/or Stakeholder	Activities Through FY18-Q4			
Census Bureau's Geography Division Chief in	<b>1.1.3.</b> The BAS budget for 2019 and 2020 is jointly funded by the Geographic			
coordination with BAS Program Manager	Support System (GSS) Program and the 2020 Census Program. The yearly budget for			
	each year is about \$17.5 million. This does not include the 2020 Boundary Validation			
	Program.			
BAS Program Manager	<b>1.1.4.</b> No activiti	es scheduled until FY20.		

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>1.1.5.</b> The Census Bureau's Tribal BAS will collect boundary data via a government-to-government policy, verify proposed changes with the Bureau of Indian Affairs (BIA), incorporate changes as appropriate, and increase the accessibility of the data on federal websites and data repositories.	Collect, verify (if needed), and incorporate all boundary data changes.	Number of changes processed.	BAS Program Manager	Q4 of each year
<b>1.1.6.</b> The BIA implements the Area Representation program to: 1) portray federally recognized American Indian Land Area Representations (LARs) that are linked to official land, title, and cadastral records in all land status mapping products; and 2) publish the single authoritative source for American Indian LARs for use by tribes and other agencies (Census Bureau, USDA, EPA, FEMA, state, county, local, etc.).	Publish the single authoritative source.  BIA provides spatial file updates to the	Number of changes processed prior to publishing deadline.  Number of spatial files delivered to the Census Bureau.	Census Bureau's Tribal Program Manager  Census Bureau's Tribal Program Manager	FY18-Q3
A man man and / an Challada aldan	Census Bureau.	-l- FV4.0. O.4		
Agency and/or Stakeholder  BAS Program Manager	Activities Through FY18-Q4  1.1.5. 2018 BAS annual response started the first week of January 2018. Staff assisted Tribal contacts with their questions and conducted non-response follow-up to ensure a high participation rate and boundary quality. 227 federally recognized tribes responded to the 2018 BAS. Staff at the Census Bureau's National Processing Center have completed submission reviews.			
Census Bureau's Tribal Program Manager	<b>1.1.6.</b> BIA has provided Census Bureau with a file of Land Area Representations (LARs) on May 1, 2018 (FY18-Q3). Two deliveries of LARs were made in September 2018 and a third delivery on October 2, 2018, bringing delivery of LARs to completion.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)				
<b>1.1.7.</b> International Boundary Commission (IBC) will continue to implement the database to maintain the 5,625-mile long international boundary between the United States and Canada using control networks, land monuments, and reference monuments.	See Action 3.4.2.		IBC					
<b>1.1.8.</b> Implement International Boundary and Water Commission (IBWC) goals to resurvey and repair land boundary monuments (last surveyed in 2007) on the international border between the United States and Mexico.	Resurvey and repair land boundary monuments.	Action Completed.	IBWC	Not applicable				
<b>1.1.9.</b> Implement IBWC goals to review recently surveyed boundary monuments 120, 121, 122, 122C, and 123 on the international border between the United States and Mexico.	Complete review of boundary monuments 120, 121, 122, 122C, and 123.	Number of boundary monuments completed.	IBWC	FY17-Q4				
Agency and/or Stakeholder	<b>Activities Throug</b>	th FY18-Q4						
IBWC	1.1.8. Action Completed.							
IBWC	<b>1.1.9.</b> No activity	y to report.		1.1.9. No activity to report.				

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)	
1.1.10. Implement IBWC goals to compile a joint	Draft and	Percentage of report	IBWC	FY17-Q4	
report on the repair of boundary monuments 142A & 145 on the international border between the United States and Mexico.	Publish report.	completed.			
<b>1.1.11.</b> Implement IBWC goals to complete the restoration of recently rehabbed boundary monument 207 on the international border between the United States and Mexico.	Restore boundary monument.	Action Completed.	IBWC	Not applicable	
Agency and/or Stakeholder	Activities Through FY18-Q4				
IBWC	<b>1.1.10.</b> As of September 30, 2018, the report is 50% along with the draft completed.				
IBWC	<b>1.1.11.</b> Action Co	1.1.11. Action Completed.			

**Objective 1.2**: Develop, maintain, and distribute authoritative statistical boundary datasets.

Anticipated Outcomes: Accomplishment of the objective will produce meaningful, relevant census tracts, block groups, Census Designated Places (CDPs) and Census County Divisions (CCDs), tribal statistical areas, tribal census tracts, and tribal block groups to obtain meaningful, relevant small area and place-level statistical data. The updated boundaries for census tracts, block groups, CDPs, CCDs, and the various tribal statistical areas provide the framework for the tabulation and presentation of data from the 2020 Census, and the ACS, and, in the case of CDPs, the Economic Census. Local, state, and federal agencies, private sector organizations, academic institutions, and the public use data tabulations for planning and funding purposes.<sup>10</sup>

Agencies, Bureaus, and Offices Involved: Statistical Boundary Dataset and Program Managers

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>1.2.1.</b> Unless otherwise noted in other actions	Maintain and update	Number of maintained and	All dataset and	Q4 each
listed below, maintain and update all statistical	statistical boundary	updated statistical boundary	program managers	year
boundary data as needed according to program	datasets not covered	datasets.	of these specified	
schedules. The program schedules pertaining to	elsewhere in this plan.		statistical	
Census Bureau datasets are detailed in Appendix 1.			boundary datasets	
Agency and/or Stakeholder	Activities Through FY18-Q4			
Theme Lead	1.2.1. No additional activities to report.			

<sup>&</sup>lt;sup>10</sup> "2010 Participant Statistical Areas Program Participant Information," U.S. Census Bureau, June 25, 2008, http://www2.census.gov/geo/pdfs/partnerships/psap2010\_part\_info.pdf.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>1.2.2.</b> Beginning Spring 2018, initiate the Participant	Mail out PSAP	Support materials delivery to	PSAP Program	FY19-Q2
Statistical Areas Program (PSAP) to help provide	materials to	participants completed.	Manager	
tribal, regional, and local governments fill in the opportunity to review and update statistical data	participants.			
gaps by defining statistical area boundaries, including	All received	Percentage of updates	PSAP Program	FY20-Q4
tribal statistical boundaries, in communities where	updates	submitted by participants	Manager	
no legal boundaries exist. <sup>11</sup>	processed.	processed to include "no		
		change" responses.		
Agency and/or Stakeholder	Activities Throug	h FY18-04		
PSAP Program Manager	<b>1.2.2.</b> Contacted 2010 Census PSAP participants to inquire about 2020 Census PSAP			
	participation. For all those agreeing to participate in 2020, invitation materials were			
	sent to the partic	cipants in FY18-Q4.		

<sup>&</sup>lt;sup>11</sup> "Accurate Geography Is the Starting Point for Accurate Data," Version 3, U.S. Census Bureau, January 24, 2017.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>1.2.3.</b> Beginning in early 2021, initiate the ZIP Code Tabulation Area (ZCTA) Program to build a generalized geographic area representation of a five-digit U.S. Postal Service ZIP Code to tabulate and disseminate 2020 census data and minimize data disclosure concerns. <sup>12</sup>	Develop project plan.	Percentage of project plan developed.	ZCTA Program Manager	FY21-Q3
<b>1.2.4.</b> Beginning in early 2021, review criteria and standards for urban areas and delineate new boundaries with 2020 Census results. <sup>13</sup>	Proposed criteria published.	Federal Register notice published.	Urban Area Dataset Program Manager	FY21-Q1
	Final criteria published.	Federal Register notice published.	Urban Area Dataset Program Manager	FY22-Q1
	Complete and publish urban area delineations.	Percentage of urban area dataset completed.	Urban Area Dataset Program Manager	FY22-Q2
Agency and/or Stakeholder	Activities Through FY18-Q4			
ZCTA Program Manager	1.2.3. No activities scheduled until FY21.			
Urban Area Dataset Program Manager	1.2.4. No activities scheduled until FY21.			

<sup>&</sup>lt;sup>12</sup> "2020 Census Operational Plan: A New Design for the 21st Century, Version 1.1," U.S. Census Bureau, November 2015, http://www2.census.gov/programs-surveys/decennial/2020/program-management/planning-docs/2020-oper-plan.pdf.

<sup>13</sup> Ibid.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>1.2.5.</b> Beginning in late 2021, review criteria and	Proposed	Publishing format to be	PUMA Program	FY21-Q4
standards for Public-Use Microdata Areas (PUMAs) and coordinate recommended changes with state-partners and other stakeholders. 14	criteria published.	determined.	Manager	
	Final criteria published.	Publishing format to be determined.	PUMA Program Manager	FY22-Q1
	Complete all PUMA boundary delineations.	Number of state-partners and other stakeholders that have coordinated updates, and submitted new boundary delineations.	PUMA Program Manager	FY22-Q4
<b>1.2.6.</b> Initiate and conduct Phase 1 of the 2020 Census Redistricting Data Program (RDP) in late 2015 to collect Block Boundary Suggestion Project (BBSP) for the 2020 Census tabulation block inventory. Complete updates of these suggestions in the Master Address File/TIGER database (MTDB) in 2017. <sup>15</sup>	BBSP Delineation Completed.	Number of participant submitted boundary updates completed.	Census Redistricting and Voting Rights Data Office (CRVRDO) Program Manager	FY16-Q4
	BBSP Verification Completed.	Number of participant submitted boundary updates completed.	CRVRDO Program Manager	FY17-Q3
Agency and/or Stakeholder	Activities Through	gh FY18-Q4	•	
PUMA Program Manager	1.2.5. No activities scheduled until FY21.			
CRVRDO Program Manager	<b>1.2.6.</b> Action Co	mpleted.		

<sup>.</sup> 

<sup>&</sup>lt;sup>14</sup> "2020 Census Operational Plan: A New Design for the 21st Century, Version 1.1," U.S. Census Bureau, November 2015, http://www2.census.gov/programs-surveys/decennial/2020/program-management/planning-docs/2020-oper-plan.pdf.

<sup>15</sup> Ibid.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<ul> <li>1.2.7. Initiate program criteria and delineate census tabulation block boundaries based on higher level tabulation geography and other features using 2020 Census results no later than the end of 2020.<sup>16</sup></li> <li>1.2.8. Beginning in 2019, work with the Office of Management and Budget (OMB) to review the current standards for delineating metropolitan, micropolitan, and related statistical areas in anticipation of OMB re-delineating these areas after the 2020 Census.</li> </ul>	Complete tabulation block delineation. Standards review support materials to OMB.	Number of tabulation blocks delineated.  Support materials delivery to OMB completed.	Census Block Program Manager  Metropolitan Statistical Area/Micropolitan Statistical Area Program Manager working with	FY20-Q4
Agency and/or Stakeholder	Activities Through FY18-Q4			
Census Block Program Manager  Metropolitan Statistical Area/Micropolitan Statistical  Area Program Manager working with OMB	<ul><li>1.2.7. No activities scheduled until FY20.</li><li>1.2.8. No activities scheduled until FY19.</li></ul>			

<sup>&</sup>lt;sup>16</sup> "2020 Census Operational Plan: A New Design for the 21st Century, Version 1.1," U.S. Census Bureau, November 2015, http://www2.census.gov/programs-surveys/decennial/2020/program-management/planning-docs/2020-oper-plan.pdf.

Objective 1.3: Develop, maintain, and distribute authoritative administrative boundary datasets.

<u>Anticipated Outcomes</u>: Administrative measures create administrative boundaries, specify their governmental or administrative functions, and contain provisions to update names and boundaries. Updated boundaries are the framework for the tabulation and presentation of data from the 2020 Census, and the ACS. Federal, state, county, and local agencies, private sector organizations, academic institutions, and the public use data tabulations for planning and funding purposes.<sup>17</sup>

<u>Agencies, Bureaus, and Offices Involved</u>: All administrative boundary Dataset and Program Managers, Theme Lead, and the Census Bureau's Small Area Estimate Branch.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>1.3.1.</b> Unless otherwise noted in other actions listed	Maintain and	Number of administrative	All dataset and	Q4 each
below, maintain and update all administrative boundary	update	boundary datasets maintained	program	year
data as needed according to program schedules. The	administrative	and updated.	managers of	
program schedules pertaining to Census Bureau datasets	boundary		these specified	
are detailed in Appendix 1.	datasets not		administrative	
	covered		boundary	
	elsewhere in		datasets	
	this plan.			
Agency and/or Stakeholder	Activities Through FY18-Q4			
Theme Lead	<b>1.3.1.</b> No addit	ional activities to report.	·	

<sup>&</sup>lt;sup>17</sup> "2020 Census Participant Statistical Areas Program (PSAP) Information Guide," U.S. Census Bureau, June 2018, https://www2.census.gov/geo/pdfs/partnerships/psap/PSAP-InfoGuide.pdf.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>1.3.2.</b> On a biennial basis beginning in	Complete	Number of changes in the school	School District	December 2017,
August 2017, and on an annual basis	Annotation	district boundaries or attributes	Review Program	December 2018,
starting in 2018 and in subsequent years	Phase.	reported to the Census Bureau,	Manager	December 2019,
(2019, 2020), review suggested changes and updates from state officials to modify		reviewed, and adjudicated.		December 2020
school district boundaries, grade ranges,	Complete	Number of changes in the school	School District	
and official names for the School District	Verification	district boundaries or attributes	Review Program	May 2018,
Review Program (SDRP). Submit changes to the Elementary School Districts,	Phase.	reported to the Census Bureau, reviewed, and adjudicated.	Manager	May 2019, May 2020
Secondary School Districts, and Unified	C hard above	Nhf. h h h	<b>C</b>	
School Districts to the National Center for	Submit changes	Number of changes submitted to	Census	Na
Education Statistics to Allocate Title 1	to the National Center for	NCES.	Bureau/Small Area Estimate	November 2018,
funding to school districts.	Education		Branch	November 2019, November 2020
	Statistics (NCES).		Didiicii	November 2020
<b>1.3.3.</b> Initiate Phase 1 of the 2020 Census Redistricting Data Program (RDP)	Initiate Phase 1.	Not applicable.	RDP Lead	December 2016
coincident with the Block Boundary				
Suggestion Project (BBSP) in 2016.				
Agency and/or Stakeholder	Activities Through	-		
School District Review Program Manager		tion Phase was completed on Decem		•
	•	ication Phase was completed on May	•	•
	•	tionship listings were delivered to the		•
		on July 13, 2018. As of 2018, SDRP I	became an annual bo	oundary collection
PDD L I		f biannual (every other year).		
RDP Lead	<b>1.3.3.</b> Action com	pietea.		

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>1.3.4.</b> Initiate and conduct Phase 2 of the 2020 Census RDP in late 2017 to collect Voting District (VTD) boundaries, names,	VTD Delineation Completed.	Number of participant submitted boundary updates completed.	CRVRDO Program Manager	FY20-Q2
and codes. Complete updates of these boundaries in the Master Address File/TIGER database (MTDB) in early 2020.	VTD Verification Completed.	Number of participant submitted boundary updates completed.	CRVRDO Program Manager	FY20-Q2
<b>1.3.5.</b> Update Bureau of Land Management (BLM) data on Administrative Unit Boundary Polygons and Administrative Unit Office Points. The	Updated polygon and/or point received.	Percentage of updates received.	BLM Administrative Unit Boundary Polygons and	Quarterly
information contained in this data is updated when necessary and are neither	Dataset updated.	Percentage of updates completed.	Administrative Unit Office Points	Quarterly
legal documents nor land surveys.	Dataset published.	Percentage of updates published.	Dataset Manager	Quarterly
Agency and/or Stakeholder	Activities Through	FY18-Q4		
CRVRDO Program Manager	1.3.4. Initial draft	VTD collection complete.		
BLM Administrative Unit Boundary Polygons and Administrative Unit Office Points Dataset Manager	1.3.5. No activity t	o report.		

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>1.3.6.</b> Update Environmental Protection Agency (EPA)	Updated data	Percentage of anticipated	EPA Facility	FY21-Q4
data on facility locations and regional boundaries. The	received (as	updates received.	Locations and	
information contained in this data is updated when	needed).		Regional	
necessary.			Boundaries	
	Dataset	Percentage of updates	Dataset	FY21-Q4
	updated (as	completed.	Manager	
	needed).			
	Dataset	Percentage of updates		FY21-Q4
	published (as	published.		
	needed).			
Agency and/or Stakeholder	Activities Through	gh FY18-Q4		
EPA Facility Locations and Regional Boundaries	<b>1.3.6.</b> No activity	y to report.		
Dataset Manager				

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>1.3.7.</b> Update Housing and Urban Development (HUD)	Update the	Percentage of jurisdictions up-	HUD	Q2 each
data on Entitlement Grantee Jurisdictions. The	jurisdictions.	to-date.	Entitlement	year
Community Development Block Grant (CDBG) program			Grantee	
provides annual grants on a formula basis to local,	Publish	Percentage of needed boundary	Jurisdiction	Q2 each
county, and state governments. The information is	updated	updates finalized.	Dataset	year
updated when necessary.	dataset.		Manager	
1.3.8. Update National Oceanic and Atmospheric Administration (NOAA) data on National Weather Service County Warning Area (NWSCWA) Boundaries. Shoreline boundaries of the data is dependent on the shoreline edges of rivers and bays as delineated on a	Submission of NGDA Dataset Removal Form to the FGDC.	Removal application submitted to FGDC.	Governmental Units Theme Lead and NWSCWA Boundaries	FY17-Q1
U.S. Geological Survey (USGS) Digital Line Graph (DLG). The edges or borders of the boundary might change as the natural land changes and Weather Forecast Office (WFOs) request for changes. The information contained in this data is updated when necessary. Note: Dataset removed FY17.	FGDC Steering Committee endorses removal.	FGDC endorsement of dataset removal received.	Dataset Manager	TBD
Between the publishing of the Theme Strategic Plan and the development of this Implementation Plan, the Dataset Manager has recommended removal of the NWSCWA Boundaries as an NGDA. The milestones will now reflect the removal process.				
Agency and/or Stakeholder	<b>Activities Throu</b>	•		
HUD Entitlement Grantee Jurisdiction Dataset Manager	<b>1.3.7.</b> This HUD Entitlement Grantee Jurisdictions dataset has not been updated due to support contract break in service. It is not expected that service will resume or that the dataset will be updated by the end of FY18.			
Theme Lead		of NWSCWA Boundaries dataset co		17-Q3.

Objective 1.4: Maintain topological relationships and quality standards for all geographic units and their associated NGDA Datasets in the Governmental Units Theme.

Anticipated Outcomes: Updates to all legal, statistical, and administrative boundary data received through scheduled Census Bureau Geographic Programs to maintain topological relationships and data quality standards in the MTDB (see Appendix 1). The Geographic Area Reconciliation Project (GARP) and Boundary Quality Assessment and Reconciliation Project (BQARP) are two Geographic Programs that improve spatial accuracy. Alignment with Parcel and Public Land Survey System (PLSS) boundaries are essential components of the BQARP. The National Boundaries Group (NBG) ensures consistent, accurate, integrated geographic base information for all federal boundaries.

Agencies, Bureaus, and Offices Involved: All Dataset and Program Managers, GARP Lead, GUPS Lead, and BQARP Lead.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>1.4.1.</b> Review all geographic areas and their topological relationships in 2020 to identify "small" summary-level records and unnecessary tabulation blocks during the Geographic Area Reconciliation Project (GARP) <sup>18</sup> . The GARP is conducted once a decade at the end of the decennial program to ensure the integration and quality of boundary information before final block creation. Note: "Small" could mean area, but could also mean minimum thresholds of housing and/or population.	Review completed.	Number of "small" summary- level records and unnecessary tabulation blocks identified.	Census Block Program Manager and GARP Lead	FY20-Q4
<b>1.4.2.</b> Obtain annual updates from theme partners from the Geographic Update Partnership Software (GUPS) tool to load, edit, and display geospatial data, as well as generate yearly output files (to FY 2023) that the Census Bureau will use to update the MAF/TIGER System.	Generate yearly output files.	Number of GUPS installations by theme partners.	GUPS Lead	Q4 each year

<sup>18 &</sup>quot;2020 Census Operational Plan: A New Design for the 21st Century, Version 1.1," U.S. Census Bureau, November 2015, http://www2.census.gov/programssurveys/decennial/2020/program-management/planning-docs/2020-oper-plan.pdf.

Agency and/or Stakeholder	Activities Through FY18-Q4
Census Block Program Manager and GARP Lead	1.4.1. No activities scheduled until FY20.
BAS Lead	<b>1.4.2.</b> During 2018 BAS, 360 Geographic Update Partnership Software (GUPS) installation disks were shipped as requested by BAS participants. In addition, an unspecified number of digital downloads of this tool have been used by 2018 BAS participants to generate yearly output files to update the MTDB. See also activity report for Action 1.1.1. for further information.
School District Review Program (SDRP) Manager	<b>1.4.2.</b> The Census Bureau requires the use of GUPS for SDRP updates. SDRP has 51 potential participants (mapping coordinators) in SDRP (50 States plus the District of Columbia), and SDRP mails disks with GUPS, data, and participant guides to all of them at the beginning of the program.
Voting District Project (VTDP) Manager	<b>1.4.2.</b> 75% of VTDP participants (2,729 counties) used GUPS to create their voting district submissions.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)	
<b>1.4.3.</b> Expand the use of available imagery for source data assessments.	Study and identify imagery needs.	Number of programs reviewed for imagery needs identified.	All Dataset and Program Managers	FY21-Q4	
	Identify sources and prioritize funding for the imagery programs.	Number of shortfalls, funding sources, and priorities identified.	All Dataset and Program Managers	FY21-Q4	
Agency and/or Stakeholder	Activities Throug	h FY18-Q4			
All Dataset and Program Managers	1.4.3. No activity	1.4.3. No activity reported.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)			
1.4.4. Align spatial boundaries data to maintain topological relationships using authoritative sources, parcel, and Public Land Survey System (PLSS) boundaries during the Boundary Quality Assessment and Reconciliation Project (BQARP). Assess all boundaries and set a quality flag on each boundary segment in the MTDB.	Complete alignment of the spatial boundaries data boundaries to maintain topological relationships.	Number of entities processed, verified, digitized, quality controlled, assessed, and locked-in the MTDB.	BQARP Lead	FY20-Q4			
<b>1.4.5.</b> Reconcile the legal documents (or descriptions) against the Census Bureau spatial boundaries data and cadastral data such as Public Land Survey System (PLSS) and parcel data. This reconciliation is a joint effort between the state or county government and the Census Bureau as well as other federal agencies.	See Action 1.4.4.						
Agency and/or Stakeholder	Activities Through FY17-Q2						
BQARP Lead	-			<b>1.4.4.</b> Acquisition, processing, verification, digitizing, and quality control (QC) of boundary data continued in FY18 with 83 counties completed.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
1.4.6. U.S. Census Bureau will ensure topological integration with international boundary datasets.	<ul> <li>Complete integration of U.SCanada border.<sup>19</sup></li> <li>Maine</li> <li>Vermont</li> <li>New York</li> <li>Pennsylvania</li> <li>Ohio</li> <li>Michigan</li> <li>Minnesota</li> <li>North Dakota</li> </ul>	Number of states with completed international boundary updates.	GARP Lead	FY20-Q4
	<ul> <li>Complete integration of U.SMexico border.<sup>20</sup></li> <li>California</li> <li>Arizona</li> <li>Texas</li> </ul>	Percentage of international boundary integrated in each state.	GARP Lead	FY20-Q4
Agency and/or Stakeholder	Activities Through FY18-Q4			
GARP Lead	<b>1.4.6.</b> No activity reported. The remainder of the processed and as funding permits, through the E		_	

<sup>&</sup>lt;sup>19</sup> Border states not listed were completed prior to the drafting of this plan.

<sup>&</sup>lt;sup>20</sup> Ibid.

Objective 1.5: Complete annual Lifecycle Maturity Assessments (LMAs).

Anticipated Outcomes: In 2015, Dataset Managers completed LMAs that established an initial baseline maturity assessment of the Governmental Units Theme datasets. The Theme Summary Report generated from the assessments provides an overview of the status, overall maturity, and other characteristics for the NGDA Datasets for the Governmental Units Theme. Yearly reports define business requirements and evaluate data user requirements, accessibility, cyclic updates, and overall status of the A-16 NGDA Portfolio. Dataset Managers evaluate each new NGDA Dataset added to the Governmental Unit Theme and apply the same methodologies to determine data maturity to contribute to a new Theme Summary Report.

Agencies, Bureaus, and Offices Involved: All Dataset Managers and Program Managers, and the Theme Lead.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>1.5.1.</b> Perform initial baseline assessments on new datasets.	Distribute updated LMA materials and train Dataset Managers and Program Managers.	Number of new datasets completed.	Theme Lead	As needed
	LMAs completed and submitted to FDGC.	Number of new datasets completed.	All dataset managers or program managers of new datasets	As needed
Agency and/or Stakeholder	Activities Thro	ugh FY18-Q4	·	
Theme Lead	<b>1.5.1.</b> No new	datasets have been added to the th	eme in FY18.	

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)	
<b>1.5.2.</b> Update maturity assessments as needed for existing datasets.	Query dataset managers at Q2 and Q4 during each year there is not an FGDC- directed review.	Percentage of dataset LMAs checked for currency.	Theme Lead	Q2 and Q4 during any year without a FGDC- directed review	
	Distribute updated LMA materials and conduct training for FGDC-directed review.	Percentage of Dataset Managers and Program Managers contacted.	Theme Lead	Schedule set by FGDC	
	FGDC-directed LMAs completed and submitted to FDGC.	Percentage of LMAs completed and submitted to FDGC.	All dataset and program managers	Schedule set by FGDC	
Agency and/or Stakeholder	Activities Throug	h FY18-Q4	1	1	
Theme Lead		<b>1.5.2.</b> All dataset managers were queried in FY18-Q4 to review 2017 LMAs for currency. No updates were reported.			

**Strategic Goal 2** – Facilitate the sharing and distribution of Governmental Units, and Administrative and Statistical Boundaries Theme datasets.

<u>Objective 2.1</u>: Publish metadata on Data.gov and the Geospatial Platform (GeoPlatform) to facilitate discovery and use of theme datasets.

<u>Anticipated Outcomes</u>: Identify Governmental Units Theme datasets and improve accessibility to a wider audience of geospatial and statistical users through cataloguing systems such as Data.gov and the Geospatial Platform (GeoPlatform.gov).

Agencies, Bureaus, and Offices Involved: Metadata Publishers, Dataset Managers, and Program Managers

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
2.1.1. Include National Geospatial Data Asset (NGDA)	Metadata	Percentage of the	Dataset Managers	Same calendar
designation keyword tags and NGDA alternate titles in	requirements	requirements finalized.	and Program	month (May)
metadata to clearly identify NGDA Datasets within the	Established.		Managers	each year for
Governmental Units Theme. Ensure the use of the same				Census Bureau
title in the metadata record as appears in the NGDA				datasets
Master Dataset List.				
	Metadata	The number of datasets	Metadata	Same calendar
Schedule for Action 2.1.1. will vary for non-Census Bureau	produced.	where all keyword tags	Publishers	month (August)
datasets.		identified. Number of		each year for
HUD Entitlement Grantee Jurisdiction Dataset Manager		NGDA datasets with		Census Bureau
will complete all milestones Q2 each year.		alternate titles. Number of		datasets
United States Canadian Boundary Dataset Manager will		datasets having the same		
complete all milestones as needed.		title in the metadata		
EPA Facility Locations and Regional Boundaries Dataset		record and the NGDA		
Manager will complete an initial review of their metadata		Master Dataset List.		
for action item compliance by the end of FY17-Q2.				
Further reviews will occur as needed.	Metadata	Percentage of the datasets	Metadata	Same calendar
The International Boundary United States Mexico Minute	published.	published.	Publishers	month
315 Dataset Manager will complete all milestones by				(November)
FY17-Q3.				each year for
BLM Administrative Unit Boundary Polygons & Office				Census Bureau
Points Dataset Manager will accomplish all milestones				datasets
with each quarterly posting of their metadata.				

Agency and/or Stakeholder	Activities Through FY18-Q4
Census Bureau	<b>2.1.1.</b> All of the Census Bureau's 34 NGDAs in this theme have updated metadata
	to use designation keyword tags, NGDA alternate titles in metadata, and identical
	titles in the metadata record and the NGDA Master Dataset List.
IBWC	<b>2.1.1.</b> All milestones completed in FY18-Q4.
HUD Entitlement Grantee Jurisdiction Dataset Manager	<b>2.1.1.</b> This dataset has not been updated due to support contract break in service.
	It is not expected that service will resume or that the dataset will be updated by the
	end of FY18.
IBC	<b>2.1.1.</b> No activity to report.
BLM Administrative Unit Boundary Polygons and	2.1.1. No activity to report.
Administrative Unit Office Points Dataset Manager	
EPA Facility Locations and Regional Boundaries Dataset	<b>2.1.1.</b> Metadata updates completed to reflect title standards.
Manager	

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)	
<b>2.1.2.</b> Provide direct Uniform Resource Locators (URLs) to the dataset, online resources, web services, APIs, and additional documentation per FGDC guidelines.	URL requirements established.	Percentage of the requirements finalized.	Dataset Managers and Program Managers	Same calendar month (May) year each for Census Bureau datasets	
Schedule for Action 2.1.2. will vary for non-Census Bureau datasets. See Action 2.1.1. for the schedule for the non-Census Bureau datasets.	URLs updated or produced.	Percentage of datasets with direct Uniform Resource Locators (URLs) to the data set, online resources, web services, APIs, and additional documentation per FGDC guidelines.	Dataset Managers and Program Managers	Same calendar month (August) each year for Census Bureau datasets	
	URLs published.	Percentage of the datasets published.	Metadata Publishers	Same calendar month (November) each year for Census Bureau datasets	
Agency and/or Stakeholder	<b>Activities Thro</b>	ugh FY18-Q4			
Census Bureau	direct Uniform	e Census Bureau's 34 NGDAs in this theme h Resource Locators (URLs) to the dataset, on umentation per FGDC guidelines.	•	•	
IBWC	<b>2.1.2.</b> All miles	stones completed in FY18-Q4.			
IBC	<b>2.1.2.</b> No activ	•			
HUD Entitlement Grantee Jurisdiction Dataset Manager	<b>2.1.2.</b> As of October 11, 2018, the URLs for the HUD NGDA datasets are not updated. HUD has updated the metadata records but the data.gov harvest has failed. The cause of the failure has not yet been determined. HUD is working with its Information Technology (IT) staff and also with General Services Administration (GSA) to determine the cause and to resolve the issue.				
BLM	<b>2.1.2.</b> No activ				
EPA Facility Locations and Regional Boundaries Dataset Manager	<b>2.1.2.</b> No activ	rity to report.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>2.1.3.</b> Create geospatial metadata in compliance with International Standard Organization (ISO) or Content Standard for Digital Geospatial Metadata (CSDGM) standards. Use the appropriate metadata structure to describe the download or access URL.  Schedule for Action 2.1.3. will vary for non-Census	Metadata produced.	Number of datasets that comply with standards and appropriate metadata structure to describe the download or access URL.	Dataset Managers and Program Managers	Same calendar month (August) each year for Census Bureau datasets
Bureau datasets. See Action 2.1.1. for the schedule for the non-Census Bureau datasets.	Metadata published.	Number of datasets that comply with standards and appropriate metadata structure to describe the download or access URL.	Metadata Publishers	Same calendar month (November) each year for Census Bureau datasets
Agency and/or Stakeholder	<b>Activities Thro</b>	ugh FY18-Q4		
Census Bureau	in compliance the appropriat	e Census Bureau's 34 NGDAs in this with International Standard Organiz e metadata structure to identify the	ation (ISO) standa	ards and use
IBWC	<b>2.1.3.</b> All miles	stones completed in FY18-Q4.		
IBC	<b>2.1.3.</b> No activ	, ,		
HUD Entitlement Grantee Jurisdiction Dataset Manager	<b>2.1.3.</b> No activ	, ,		
BLM Administrative Unit Boundary Polygons and Administrative Unit Office Points Dataset Manager	<b>2.1.3.</b> No activ	· ·		
EPA Facility Locations and Regional Boundaries Dataset Manager	<b>2.1.3.</b> Metada	ta updated to reflect the standards.		

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
2.1.4. Ensure that all metadata	All datasets contain	Number of datatsets	Dataset Managers	Same calendar month
published includes only original	only original metadata.	containing only original	and Program	(November) each year
metadata. Include terms found in		metadata.	Managers	for Census Bureau
published taxonomies and include a referencing thumbnail "browse"				datasets
graphic in dataset metadata where	All datatsets include a	Number of datatsets with	Dataset Managers	Same calendar month
appropriate. Specify content dates (use	referencing thumbnail	a referencing thumbnail	and Program	(November) -each
the word "present" in lieu of an end-	where appropriate.	where appropriate.	Managers	year for Census
date for continuously collected data).		2 2 2 1 1 2 2 2 2		Bureau datasets
Schedule for Action 2.1.4. will vary for	All datasets will specify	Number of datatsets with	Dataset Managers	Same calendar month
non-Census Bureau datasets. See	content dates.	content dates.	and Program	(November) each year
Action 2.1.1. for the schedule for the			Managers	for Census Bureau
non-Census Bureau datasets.				datasets
Agency and/or Stakeholder	Activities Through FY18-	Q4		
Census Bureau	<b>2.1.4.</b> All of the Census E	Bureau's 34 NGDAs in this th	eme are updated with	only original metadata,
	· ·	ublished taxonomies, include	•	nail "browse" graphic in
	·	e appropriate), and specify co	ontent dates.	
IBWC	<b>2.1.4.</b> All milestones con	•		
IBC	<b>2.1.4.</b> No activity to repo			
HUD Entitlement Grantee Jurisdiction	<b>2.1.4.</b> No activity to repo	ort.		
Dataset Manager				
BLM Administrative Unit Boundary	<b>2.1.4.</b> No activity to repo	ort.		
Polygons and Administrative Unit				
Office Points Dataset Manager				
EPA Facility Locations and Regional	<b>2.1.4.</b> Metadata comple	ted and up to date.		
Boundaries Dataset Manager				

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>2.1.5.</b> Provide unique records for collections or series of homogenous datasets (collection-level and member-level metadata records) that vary in content date and geographic extent. Note: this type of collection management is not applicable to indexed records.	All unique records for collections or series of homogenous datasets are completed.	Percentage of records completed.	Dataset Managers and Program Managers of collections or series of homogenous datasets	Same calendar month (November) each year
Agency and/or Stakeholder	Activities Thro	ough FY18-Q4		
IBWC	<b>2.1.5.</b> Milesto	ne completed in FY:	18-Q4.	
HUD Entitlement Grantee Jurisdiction Dataset Manager	2.1.5. No activity to report.			
Census Bureau	<b>2.1.5.</b> All unique are completed		ctions or series of hor	mogenous datasets

**Objective 2.2**: Provide reliable web services with quality metadata to improve the GeoPlatform experience.

<u>Anticipated Outcomes</u>: NGDA Datasets for the Governmental Units Theme will be available as web services for efficient consumption and proliferation in web applications.

Agencies, Bureaus, and Offices Involved: All Dataset Managers and Program Managers

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>2.2.1.</b> Provide geospatial web services for all	All NGDAs have an	Number of NGDAs with an	All Dataset	FY17-Q2;
NGDAs in the Governmental Unit theme per FGDC	associated REST, WMS,	associated REST, WMS, WFS,	Managers and	FY17-Q3 for
guidelines.	WFS, etc.	etc.	Program Managers	EPA
The International Boundary United States Mexico Minute 315 Dataset Manager will determine their schedule for all actions in this objective at a later date.			Wallagers	
Agency and/or Stakeholder	Activities Through FY18-	Q4		L
Census Bureau	<b>2.2.1.</b> All of the Census I	Bureau's 34 NGDAs in this theme	have geospatial we	eb services.
IBWC	2.2.1. Milestone comple	ted in FY18-Q4.		
IBC	<b>2.2.1.</b> No activity to repo	ort.		
HUD Entitlement Grantee Jurisdiction Dataset	· ·	geospatial web services for all o		
Manager		em, but the URLs for these services		•
	October 11, 2018 because the data.gov harvest process is problematic. HUD IT staff and GSA are working to resolve this issue.			
BLM	<b>2.2.1.</b> No activity to repo			
EPA Facility Locations and Regional Boundaries Dataset Manager		through a Esri REST Map Service		

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>2.2.2.</b> All geospatial web services linked via URL to the GeoPlatform meet the GeoPlatform's performance metrics standards.	All REST, WMS, WFS, etc. meet the performance metrics standards.	Number of NGDAs with REST, WMS, WFS, etc. linked via URL to the GeoPlatform meeting the GeoPlatform's performance metrics standards.	All Dataset Managers and Program Managers	FY17-Q4
Agency and/or Stakeholder	Activities Through FY18-	Q4		
Census Bureau	<b>2.2.2.</b> All of the Census Bureau's 34 NGDAs in this theme have geospatial web services. All geospatial web services, except for the Census Regional Boundaries NGDA, are linked via URL to the GeoPlatform and meet the GeoPlatform's performance metrics standards.			
IBWC	2.2.2. Milestone comple			
IBC	2.2.2. No activity to repo	ort.		
HUD Entitlement Grantee Jurisdiction Dataset Manager	<b>2.2.2.</b> As of October 11, 2018, HUD has been unable to monitor the performance metrics for its NGDA web services on the GeoPlatform dashboard because the URLs in the metadata records have not been updated (see 2.2.1).			
BLM Administrative Unit Boundary Polygons and Administrative Unit Office Points Dataset Manager	2.2.2. No activity to repo	ort.		
EPA Facility Locations and Regional Boundaries Dataset Manager	_ · · · · · · · · · · · · · · · · · · ·	veb services for its NGDA are link m's performance metrics standa		eoPlatform

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>2.2.3.</b> Metadata must include an actionable Service	All metadata includes a	Number NGDA datasets with	All Dataset	FY17-Q2;
Endpoint URL that will launch a web mapping	REST, WMS, WFS, etc.	metadata including a REST,	Managers and	FY17-Q3 for
service. If no actionable Service Endpoint is	with either a current	WMS, WFS, etc. with either a	Program	EPA
available, provide the URL that gets the user closest	actionable Service	current actionable Service	Managers	
to the geospatial web services. As individual	Endpoint URL or a URL	Endpoint URL or a URL that		
services are developed, the metadata link will be	that provides the	provides closest link to the		
updated to the actionable Service Endpoint.	closest link to the web	web mapping service.		
	mapping service.			
Agency and/or Stakeholder	Activities Through FY18-	Q4		
Census Bureau	<b>2.2.3.</b> The metadata of a	all of the Census Bureau's 34 NGI	DAs in this theme in	clude an
	actionable Service Endpo	oint URL that will launch a web m	napping service.	
IBWC	2.2.3. Milestone comple	ted in FY18-Q4.		
IBC	2.2.3. No activity to repo	ort.		
HUD Entitlement Grantee Jurisdiction Dataset	2.2.3. No activity to repo	ort.		
Manager				
BLM Administrative Unit Boundary Polygons and	2.2.3. No activity to repo	ort.		
Administrative Unit Office Points Dataset Manager				
EPA Facility Locations and Regional Boundaries	2.2.3. The metadata for	its one NGDA includes an action	able Service Endpoi	nt URL that
Dataset Manager	will launch a web mappir	ng service.		

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>2.2.4.</b> In the metadata, URLs will be tagged with the	All URLs currently	Number of datasets	All Dataset	FY17-Q2
acronym that best represents the geospatial web services	tagged with the	with URLs correctly	Managers and	
such as REST, WMS, WFS, etc. per the NGDA Metadata	best acronym.	tagged.	Program	
Guidance. <sup>21</sup>			Managers	
Agency and/or Stakeholder	Activities Through FY18-Q4			
Census Bureau	<b>2.2.4.</b> All of the Census Bureau's 34 NGDAs have published metadata with			tadata with
	URLs tagged with the	e acronym that best repre	esents the geospa	tial web
	services such as REST	Γ, WMS, WFS, etc. per the	e NGDA Metadata	Guidance.
IBWC	2.2.4. Milestone cor	npleted in FY18-Q4.		
IBC	2.2.4. No activity to	report.		
HUD Entitlement Grantee Jurisdiction Dataset Manager	2.2.4. No activity to	report.		
BLM Administrative Unit Boundary Polygons and	2.2.4. No activity to	report.		
Administrative Unit Office Points Dataset Manager				
EPA Facility Locations and Regional Boundaries Dataset	2.2.4. No activity to	report.		
Manager				

<sup>&</sup>lt;sup>21</sup> "National Geospatial Data Asset (NGDA) Metadata Guidelines, Version 3," Federal Geographic Data Committee, July 2016, https://communities.geoplatform.gov/ngda-portfolio/wp-content/uploads/2017/12/NGDA\_Metadata\_Guidelines\_v3.pdf.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>2.2.5.</b> ISO metadata developers will document their geospatial web services using as a standalone Service Identification Record. This will allow the linking of the metadata of current and future versions of the same dataset to the same Service Identification Record.	All geospatial web services within ISO metadata records are documented using as a standalone Service Identification Record.	Number of datasets with ISO metadata records completed.	Dataset Managers and Program Managers with ISO metadata records	FY17-Q4
Agency and/or Stakeholder	Activities Through F	Y18-Q4		
Census Bureau		sus Bureau's 34 NGDAs in ces using a standalone Se		
IBWC	2.2.5. Milestone cor	npleted in FY18-Q4.		
BLM Administrative Unit Boundary Polygons and	2.2.5. No activity to	report.		
Administrative Unit Office Points Dataset Manager				
EPA Facility Locations and Regional Boundaries Dataset Manager	<b>2.2.5.</b> No activity to	report.		
IBC	2.2.5. No activity to	report.		

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>2.2.6.</b> CSDGM metadata developers must document their geospatial web services using the distribution section the NGDA Metadata Guidance. Failure to do so will result in the inability of the Geospatial Platform to identify and promote the service.	All CSDGM metadata records documented their geospatial web services per the NGDA Metadata Guidance.	Number of datasets with CSDGM metadata records completed.	Dataset Managers and Program Managers with CSDGM metadata records	FY17-Q4
Agency and/or Stakeholder	Activities Through F	Y18-Q4		
HUD Entitlement Grantee Jurisdiction Dataset Manager	<b>2.2.6.</b> No activity to	report.		
BLM Administrative Unit Boundary Polygons and Administrative Unit Office Points Dataset Manager	<b>2.2.6.</b> No activity to	report.		
EPA Facility Locations and Regional Boundaries Dataset Manager	<b>2.2.6.</b> No activity to	report.		

<u>Strategic Goal 3</u> – Coordinate the Governmental Units, and Administrative and Statistical Boundaries Theme among stakeholders.

<u>Objective 3.1</u>: National Boundary Group (NBG), formally designated as an FGDC Working Group in 2014, leads the development of nationally consistent boundaries that are integrated using the same geographic base. Federal boundary sources will be consistent, accurate, and integrated.

Anticipated Outcomes: Participating federal agencies achieve currency, accuracy, consistency, accessibility, interoperability with all boundary datasets through collaborative opportunities. FGDC subcommittees and subgroups that collaborate participate with in the NBG, maintain and access high-quality boundary datasets. Identify authoritative sources and authoritative integrators for boundary data including but not limited to tribal areas, federal land boundaries, state lines, county lines, maritime boundaries, and international boundaries.

Agencies, Bureaus, and Offices Involved: National Boundary Group (NBG) and the Census Bureau's Spatial Data Collection and Products Branch

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>3.1.1.</b> Conduct quarterly meetings of the National Boundary Group (NBG). Continue to provide an open forum for the exchange of ideas to improve the overall management and availability of boundaries in federal datasets.	Meeting occurs each quarter.	Publication of meeting minutes.	NBG Lead	FY21-Q4
Agency and/or Stakeholder	Activities Through FY	18-Q4		
NBG Lead	on the GeoPlatform's Lands Workgroup (see	n FY18-Q2 and published meeting m Governmental Units Community Pa e the activities reported for Action 3 meetings have been, and will conti	ges for the NBG and Tri	d Federal bal

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>3.1.2.</b> Identify collaborative opportunities with tribal, federal, state, county, and local	Identify new collaborative opportunities with federal agencies.	Number of collaborative opportunities identified.	NBG Lead	FY21-Q4
governments regarding consistent boundaries and datasets.	Identify new collaborative opportunities with tribal governments.	Monthly meetings of the Tribal Boundary Subgroup.	NBG Lead	FY21-Q4
Agency and/or Stakeholder	Activities Through FY18-Q4			
NBG Lead	<ul> <li>Activities Through FY18-Q4</li> <li>3.1.2. The NBG continued collaboration with the Cadastral Subcommittee and the Dataset Managers for the PAD-US dataset to identify boundaries coincident with cadastral features such as parcels and the public land survey system. The U.S. Census Bureau has continued to use the results of this activity for the Boundary Quality Assessment and Reconciliation Project (BQARP) through FY19. The NBG continued discussions about the availability of military lands from the Department of Defense and the U.S. Army Corps of Engineers to the public and other federal agencies.</li> <li>The significant NBG goals identified for FY 2019 include: <ol> <li>The NBG will hold limited meetings to summarize progress of ongoing tasks.</li> <li>The U.S. Census Bureau will continue to provide quarterly updates on the BQARP.</li> <li>The Federal Lands Workgroup (FLWG) will improve the efficiency of annual federal lands data aggregation and integration for the PAD-US through source data documentation and continued outreach to state and local governments.</li> <li>The Tribal Boundaries Workgroup continues to work on their charter and continues to document how agencies use tribal boundary data, what data quality is required, and the desired boundary attributes.</li> <li>The U.S. Census Bureau will continue to update the international boundaries in the MTDB using IBC are</li> </ol> </li> </ul>		data outreach to cument how butes.	

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)	
<b>3.1.2.</b> (cont.) Identify collaborative opportunities with	Identify new				
tribal, federal, state, county, and local governments	collaborative				
regarding consistent boundaries and datasets.	opportunities				
	with state,				
	county, and				
	local				
	governments.				
	(See Action				
	1.1.2.)				
Agency and/or Stakeholder	Activities Throug				
NBG Lead		ified these challenges and opportu			
		ederal agencies that consume or pr	oduce datasets tha	t define or affect	
	boundaries to:				
		plication of effort; and			
		ne overall quality of shared bounda	•		
	2. Continue to provide an open forum for the exchange of ideas to improve the ove				
	management and availability of boundaries in federal datasets.				
	1	orative opportunities with tribal, for	ederal, state, and lo	ocal	
	governments to s	share accurate boundary data.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>3.1.3.</b> Collect locally sourced data with tribal, federal, state, county, and local partners to update the theme's boundary datasets where necessary.	Coordinate with international partners (IBC & IBWC) to receive their data updates (see Action 1.4.6)	Number of datasets collected for individual states along the U.S./Canada, and U.S./Mexico borders.	NBG Lead	FY21-Q4
	Collect locally sourced data with federal, state, county, and local partners.	Percentage of datasets collected from respondents with no changes recorded.	NBG Lead	Q3 each year
		Percentage of datasets collected from respondents with changes recorded.	NBG Lead	Q3 each year
Agency and/or Stakeholder	Activities Through FY18-C	<b>Q4</b>		
NBG Lead	<b>3.1.3.</b> As of September 30, 2018, the response rate was 89% of the approximately 39,000 governments invited to participate in BAS. Approximately 83% of these participants recorded no changes to their datasets and approximately 15% of these participants reported changes to their datasets.			
	The International Boundary Commission (IBC) and the International Boundary and Wate Commission (IBWC) updated the NBG on their work improving the international bounda with Canada and Mexico. The NBG continued its collaboration with the U.S. Census Bure IBC, and IBWC to update the international boundaries in the MTDB.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>3.1.4.</b> Maintain and facilitate charter goals of the NBG subgroups (Tribal Boundaries Working Group, Federal Lands Working	Create and then annually review goals of the Tribal Boundaries Subgroup for	Number of goals retired as completed or no longer relevant.	NBG Lead	Q4 each year
Group).	currency.	Number of new goals identified.	NBG Lead	Q4 each year
	Annually review goals of the Federal Lands Working Subgroup for	Number of goals retired as completed or no longer relevant.	NBG Lead	Q4 each year
	currency.	Number of new goals identified.	NBG Lead	Q4 each year
Agency and/or Stakeholder	Activities Through FY18-Q	4		
NBG Lead	<ul> <li>3.1.4. The Tribal Boundaries Subgroup:</li> <li>add representatives from federal agencies, private industry, tribal organization, and federally recognized tribes to their membership roster;</li> <li>publish presentations and meeting notes on the GeoPlatform.</li> </ul>			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>3.1.4. (cont.)</b> Maintain and facilitate charter goals of the NBG subgroups (Tribal Boundaries Working Group,	Create and then annually review goals of the Tribal Boundaries Subgroup for currency.	Number of goals retired as completed or no longer relevant.	NBG Lead	Q4 each year
Federal Lands Working Group).		Number of new goals identified.	NBG Lead	Q4 each year
	Annually review goals of the Federal Lands Working Subgroup for currency.	Number of goals retired as completed or no longer relevant.	NBG Lead	Q4 each year
		Number of new goals identified.	NBG Lead	Q4 each year
Agency and/or Stakeholder	Activities Through FY18-Q4			
NBG Lead	<ul> <li>Automate updates - continuous persistent identifier from with USGS as new strateg</li> <li>Complete inventory - assort federal lands (fee, easement of the properties) federal lands federal la</li></ul>	Group (FLWG) identified the follow inue efforts to automate updates are authoritative agency source data in ic and technology directions for PAD ess needs and identify opportunities ent, designations).  (age users - publish guidance for base overlaps - update the PAD-US Reviewed by USGS), including fee topology najor overlaps that remain for data so PAD-US / FLWG updates with Congrespolications during The Department rate with Esri to share available data portunities within agency networks. Ing - attend annual face-to-face medical for January 29-31, 2019).	and assess options the PAD-US form D-US evolve. It to complete the seemap developer was assessment layer the external Research of Interior's Office, share Federal Research and Research an	inventory of s and engage -US 2.0 Web rs, for internal ation. Service ce of Policy ecreation Map,

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>3.1.5.</b> Collaborate with the Cadastral Subcommittee to identify where boundaries are coincident with cadastral features.	All coincident boundaries identified.	Number of coincident boundaries miles identified.	NBG Lead	Completed
Agency and/or Stakeholder	Activities Through FY18-Q4			
NBG Lead	<b>3.1.5.</b> Action Completed in FY17. 77,737 miles of county boundaries and 9,928 miles of state boundaries are identified as coincident.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>3.1.6.</b> Collaborate with the Cadastral Subcommittee on BQARP activities. The Census Bureau reconciles the legal documents (or descriptions) against the Census Bureau spatial boundaries data and cadastral data such as Public Land Survey System (PLSS) and parcel data.	All boundaries reconciled.	Number of miles of boundary reconciliations by BQARP each year.	NBG Lead	Q4 each year
<b>3.1.7.</b> The National Boundary Group will coordinate with the Marine and Coastal Spatial Data Subcommittee of the Water–Oceans and Coasts Theme to establish and publish standards and specifications for marine and coastal spatial data, and establish priorities for marine and coastal spatial data collection, processing, and dissemination.	All standards and specifications established and published.	Number of standards and specifications established and published.	NBG Lead	FY21-Q4
	Data collection priorities established.	Number of data collection priorities identified.	NBG Lead	FY21-Q4
Agency and/or Stakeholder	Activities Thro	ugh FY18-Q4		
NGB Lead	<b>3.1.6.</b> The NBG continued collaboration with the cadastral subcommittee and the PAD-US dataset manager to identify boundaries coincident with cadastral features such as parcels and the public land survey system. The U.S. Census Bureau has continued using the results of this activity for the Boundary Quality Assessment and Reconciliation Project (BQARP) through FY18.			
NGB Lead	<b>3.1.7.</b> No activ	, , , ,		

<u>Objective 3.2</u>: The Tribal Boundaries Working Group, formally designated as a NBG working group in 2015, identifies the data and communication needs for agencies and governments using tribal boundary data. These agencies include the Tribal governments, Department of Interior (DOI), the Census Bureau, Federal Emergency Management Agency (FEMA), and Forest Service (USFS).

<u>Anticipated Outcomes</u>: The Tribal Boundaries Working Group documents tribal land and boundary data use, data quality requirements, and boundary attribute needs for all federal agencies, governments, and institutions. Online resource of meeting notes, documents, presentations, and upcoming events maintained and distributed to members on a regular basis.

Agencies, Bureaus, and Offices Involved: Tribal Boundaries Working Group

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>3.2.1.</b> Maintain approved charter goals of the recently	See Action		Tribal	
established Tribal Boundaries Working Group.	3.1.4.		Boundaries	
			Workgroup Lead	
<b>3.2.2</b> . Identify uses of tribal boundary data for all federal	All federal	Number of federal agency	Tribal	Q4 each
agencies. Geospatial resources include legal tribal land	agencies	responses to survey.	Boundaries	year
boundary data, tribal statistical areas (for data collection,	surveyed.		Workgroup Lead	
tabulation, and analysis), and a FEMA Tribal Consultation				
database (with emergency contacts, grants, assistance,		Number of uses and need	Tribal	Q4 each
programs, and major disaster declarations).		identified.	Boundaries	year
			Workgroup Lead	
<b>3.2.3.</b> Facilitate regular meetings of the Tribal Boundaries	All meetings	Meeting minutes document	Tribal	Monthly
Working Group as a platform for federal agencies and	occur as	needs for data quality and	Boundaries	
tribal governments to document needs for data quality	scheduled.	boundary attributes.	Workgroup Lead	
and boundary attributes.				
Agency and/or Stakeholder	Activities Through FY18-Q4			
Tribal Boundaries Working Group Lead	<b>3.2.2.</b> No activity to report.			
Tribal Boundaries Working Group Lead	<b>3.2.3.</b> One med	eting was held during FY18-Q2.		

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)	
<b>3.2.4.</b> Create an instructional resource to document legislation or program criteria for tribal boundaries.	Research and gather legislation and/or program criteria.	Number of sources checked for material.	Tribal Boundaries Workgroup Lead	FY21-Q4	
	Construction of an instructional resource.	Number of pieces of legislation and criteria documented.	Tribal Boundaries Workgroup Lead	FY21-Q4	
<b>3.2.5.</b> Define and document datasets of tribal lands and boundaries, population and economic data, mineral resources, and criteria for programs, where appropriate.	Define and document geospatial datasets.	Number of geospatial datasets documented.	Tribal Boundaries Workgroup Lead	Q4 each year	
Agency and/or Stakeholder	Activities Throug	h FY18-Q4			
Tribal Boundaries Working Group Lead	3.2.4. No activity	3.2.4. No activity to report.			
Tribal Boundaries Working Group Lead	<b>3.2.5.</b> No activity	y to report.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)				
<b>3.2.6.</b> Document responsible authority or	Documentation	Number of sources	Tribal	FY21-Q4				
authoritative sources for tribal lands and	completed.	documented.	Boundaries					
boundaries datasets.			Workgroup Lead					
<b>3.2.7.</b> Discuss ways that agencies can collaborate,	Topic is focus of at	Potential collaboration	Tribal	Q4 each year				
reduce duplication, and share tribal boundary	least one working	opportunities identified.	Boundaries					
information.	group meeting per		Workgroup Lead					
	year.							
<b>3.2.8.</b> Coordinate collection, verification, and	Collect	Number of authoritative	Tribal	FY21-Q4				
publication of authoritative legal, statistical, and	authoritative data.	datatsets collected.	Boundaries					
boundary data on American Indian Land for use by			Workgroup Lead					
tribal governments and other federal, state,	Verify	Number of authoritative	Tribal					
county, and local agencies (i.e. Reservation and Trust Land Boundary Inventory and Update).	authoritative data.	datatsets verified.	Boundaries	FY21-Q4				
Trust Land Bodinadi y inventor y and opadice).	dathoritative data.	datatsets vermed.	Workgroup Lead	1121 Q4				
			0 114 1000					
	Publish	Number of authoritative	Tribal	FY21-Q4				
	authoritative data,	datatsets published.	Boundaries					
	where possible.		Workgroup Lead					
Agency and/or Stakeholder	Activities Through FY18-Q4							
Tribal Boundaries Working Group Lead	<b>3.2.6.</b> No activity to report.							
Tribal Boundaries Working Group Lead	· · · · · · · · · · · · · · · · · · ·	<b>3.2.7.</b> No activity to report.						
Tribal Boundaries Working Group Lead	<b>3.2.8.</b> No activity to	report.		.2.8. No activity to report.				

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)	
<b>3.2.9</b> . Support a Tribal Nations Community on the GeoPlatform.	Post the Tribal Nations Community URL on the Tribal Boundaries Workgroup Community Page.	Tribal Boundaries Workgroup Community Page is updated.	Tribal Boundaries Workgroup Lead	Q2 and Q4 each year	
Agency and/or Stakeholder	Activities Through FY18-Q4				
Tribal Boundaries Working Group Lead	<b>3.2.9.</b> Community webpage created and maintained on the GeoPlatform. Tribal Nations Community URL is posted on Tribal Boundaries Workgroup Community Page.				

Objective 3.3: The Federal Lands Working Group (FLWG) develops a data standard and the organizational strategies for the aggregation of federally owned lands in a spatial database.

Anticipated Outcomes: Federal agencies achieve currency, accuracy, consistency for federal land areas information and use or generate new data without duplication. Alignment with applicable agency business plans (i.e., Bureau of Land Management, Environmental Protection Agency, National Park Service, U.S. Forest Service, U.S. Geological Survey) to access, update and publish federal land areas data.

Agencies, Bureaus, and Offices Involved: FLWG Lead, Board on Geographic Names (BGN), and USGS

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>3.3.1.</b> Continue collaborative testing and refinement of the Protected Areas Database of the U.S. (PAD-US) Data Standard through the FLWG for an aggregated Federal Lands Geodatabase that contributes to the PAD-US, published by USGS.	PAD-US Data Standard published with FGDC endorsement.	Number of publication steps completed.	FLWG Lead	FY18-Q4
<b>3.3.2.</b> Maintain the PAD-US, a geodatabase developed by the USGS, Core Science Systems (PAD-US 1.4 published May 2016) in collaboration with the FLWG. Improve data compatibility within the PAD-US geodatabase with documented source data files and field mapping.	Automated federal land updates.	Number of required agencies that have automated the translation of updated source data to the PAD-US format.	FLWG Lead	Q4 each year
	Annual PAD-	Number of files and maps	FLWG Lead	Q4 each
	US	received and processed to		year
Against and far Stalishalder	publication.	improve compatibility.		
Agency and/or Stakeholder FLWG Lead	<b>3.3.1.</b> No upda progress).	tes to report. FGDC approval proce	ss pending USGS pu	blication (in

**FLWG Lead 3.3.2.** Major updates to report. The PAD-US Team worked closely with the FLWG to develop and review the federal estate in PAD-US 2.0. PAD-US 2.0 has been completed and is in USGS review. The final publication will reflect federal lands owned and managed by the respective agencies, including complete updates from 8 federal agencies (BLM, National Park Service (NPS), Fish and Wildlife Service (FWS), Department of Defense (DoD), Natural Resources Conservation Service (NRCS), USFS, NOAA, and Bureau of Ocean Energy Management (BOEM). In addition, over 30 state and nonprofit lands updates are included. The FLWG reviewed the first draft (June 22, 2017) Federal Areas geodatabase – focused on the translation of agency data into the PAD-US format and feature class placement in the new database structure (Fee, Designation, Easement, Marine, Proclamation). The FLWG reviewed the second draft (November 7, 2017) of the Federal Areas geodatabase including all PAD-US attributes (some transferred from PAD-US 1.4) – focusing on the presentation of Owner Name, Manager Name, Protection Status (GAP Status Code) and Public Access (the most commonly used information). Agency data stewards reviewed (April 9, 2018) the full PAD-US 2.0 geodatabase - focused on the Fee ownership layer (changed significantly from PAD-US 1.4 with the removal of overlapping management designations), while considering federal lands in context with state and other lands.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>3.3.3.</b> Aggregate federal land ownership and	Best available ownership	Increases in the estimates of	FLWG Lead &	Q4 each
management designations from authoritative sources to meet common agency needs, and deliver to USGS for publication of PAD-US in a	and management designations collected.	current inventory completeness.	USGS	year
multiple feature class structure to better	Multiple feature class	Number of agencies that submit	FLWG Lead &	FY21-Q4
manage overlaps.	structure published.	data to USGS for PAD-US in	USGS	
		multiple feature class structure:		
		"Fee", "Designations", and		
		"Easements".		
Agency and/or Stakeholder	Activities Through FY18-Q4			
FLWG Lead	3.3.3. Major updates to report. FLWG agencies reviewed the plan for the PAD-US 2.0 update, indicating whether updated data are available or if no changes are required. Three agencies (US Forest Service, National Park Service and US Fish & Wildlife Service) submitted data in the PAD-US 2.0 multiple feature class structure (Fee, Easement, Designation, Proclamation). The Bureau of Land Management (BLM) submitted 12 files representing BLM lands and designations (no easements) that required USGS data translation. The Natural Resources Conservation Service (NRCS) and Department of Defense (DoD) each submitted 1 file requiring USGS translation while the Bureau of Ocean Energy Management (BOEM) submitted 4 regional files requiring USGS translation and aggregation. The National Oceanic and Atmospheric Administration (NOAA) submitted Marine Protected Areas data closely aligned with PAD-US. The United States Bureau of Reclamation (USBR), and United States Army Corps of Engineers (USACE), requested data transferred from PAD-US 1.4 as best available while data development efforts (compatible with PAD-US) continue. The Bureau of Indian Affairs (BIA) requested their American Indian and Alaskan Native Land dataset be removed from PAD-US 2.0 as an inappropriate data use.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>3.3.4.</b> Evaluate federal naming standards to improve the federal theme in PAD-US.	Evaluate all federal naming standards (Board on Geographic Names (BGN), PAD-US Standard).	Number of agencies that submit "Unit Name" and follow established standards (PAD-US and BGN).	FLWG Lead & BGN Lead	FY21-Q4
<b>3.3.5.</b> Complete boundary adjudication effort with all applicable sources and agencies to reduce topology errors (overlaps and gaps) between agency datasets.	Assess "Fee" topology errors.	Number of agencies that collaborate to reduce topology errors.	FLWG Lead	FY21-Q4
	Adjudication completed.	Area of topology overlap errors reduced.	FLWG Lead	FY21-Q4
Agency and/or Stakeholder	Activities Throug	h FY18-Q4		•
FLWG Lead	<b>3.3.4.</b> Updates to report. US Forest Service (USFS), US Fish & Wildlife Service, and National Parks Service have made some corrections to better align with standards. The PAD-US Team worked closely with the USFS to assess options to improve Nam for Forest Service (FS) units. PAD-US 1.4 and 2.0 includes administrative forest nar which do not always reflect the actual National Forest or National Grassland, while names in the next PAD-US will reflect actual names (FS Land Unit file) in PAD-US "Unit Name" while the administrative forest remains in PAD-US "Local Name".		standards. prove Names e forest names, land, while PAD-US "Unit	

FLWG Lead **3.3.5.** Major updates to report. The new PAD-US 2.0 database structure significantly reduces overlaps within the federal theme of the "Fee" ownership feature class (goal). USGS assessed major (greater than 5 acres) and minor (less than 5 acres) overlaps between federal agency datasets and between federal and state lands in PAD-US 2.0. The full topology assessment (geodatabase) has been shared with the FLWG for review as efforts to improve source data continue. Following PAD-US 2.0 publication, topology layers will also be updated into the PAD-US Review Tool (http://www.mapcollaborator.org/padus/), developed for internal FLWG use only at this time, to highlight major issues for data steward consideration (including state lands overlapping federal fee areas). The tool harnesses comments associated with overlaps and directs them to agency stewards for action as resources allow. The tool also makes the topology assessment available to non-geographic information system (GIS) users on the FLWG. In addition, USGS will develop three new Web Mapping Services following PAD-US 2.0 publication: All topo overlaps, Federal/Federal over 5 acres, Federal/State over 5 acres for public use in the PAD-US Viewer (https://maps.usgs.gov/padus/).

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>3.3.6.</b> Review the draft PAD-US Standards Manual to improve the efficiency and effectiveness of federal land updates and ensure stakeholder needs are met.	Review completed.	Percentage of manual reviewed.	FLWG Lead	FY21-Q4
iana apaates and ensure stakenoider needs are met.	All federal stakeholders endorse manual.	Number of stakeholders that endorse the manual.	FLWG Lead	FY21-Q4
<b>3.3.7.</b> Develop and publish source data documentation to identify the data sources aggregated from applicable agencies and field mapping for Federal Land Geodatabase update in PAD-	Develop source data documentation.	Number of sources contacted.	FLWG Lead	FY21-Q4
US format.	Publish source data documentation.	Number of source files that describe documentation reviewed by agencies.	FLWG Lead	FY21-Q4
Agency and/or Stakeholder	Activities Throug	h FY18-Q4		
FLWG Lead	3.3.6. No activity	to report. Action pending USGS D	ata Manual publi	cation.
FLWG Lead	<b>3.3.7.</b> Major updates to report. The PAD-US Team collaborated closely with the FLWG to document all source data submitted for PAD-US 2.0. Public facing online and PDF Steward Reports describing the agency steward organization, contacts, source data access points, estimated inventory completeness and source files submitted for PAD-US 2.0 are now available: <a href="http://www.protectedlands.net/data-stewards/">http://www.protectedlands.net/data-stewards/</a> (along with State and nonprofit data steward reports). This source data will also be made available by USGS.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>3.3.8.</b> Document common agency needs for PAD-US.	Biannual collection of common agency needs.	Number of agencies contacted.	FLWG Lead	FY17-Q4; FY19-Q4; FY21-Q4
	Documentation completed.	Number of needs validated.	FLWG Lead	FY17-Q4
	Common agency needs communicated to USGS as publisher of PAD-US.	USGS acknowledges receipt of documentation on common agency needs from FLWG.	FLWG Lead	FY17-Q4
Agency and/or Stakeholder	Activities Through FY1	8-Q4		
FLWG Lead	<b>3.3.8.</b> Major updates to report. PAD-US 2.0 common agencies needs reviewed by FLWG during March 20, 2018 Face-to-face meeting and shared with USGS. Priorities include: 1) Improve data quality – complete inventory and reduce boundary discrepancies (produce a topology error free "Fee" parcel layer with ownership and management defined); 2) Improve attributes – focus on Category, Owner/Manager, Unit Name, Designation Type, Public Access, GAP Status Code and add persistent ID; 3) Expand outreach to increase awareness and support users. Current federal stakeholders include: Congressional Research Service/House/Senate/GAO GIS Groups, National Wildfire Coordination Group, Federal Recreation Council, Base map providers (Esri, Google, USGS National Map, etc.), The Department of Interior, Federal Land Roads Working Group, Department of Homeland Security, the Department of Defense, Census, USGS Core Science Systems, The Environmental Protection Agency and internal FLWG agency efforts. Work to inform the Federal Highway Administration and Emergency Management agencies about PAD-US and FLWG efforts are pending.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>3.3.9.</b> Support federal	Delivered	Number and breadth of groups reached.	FLWG Lead	Q4 each year
applications of PAD-US	presentations.			
through FLWG outreach.	Cantanana	Number and breadth of groups reached.	FINAC Land	04
	Conference participation.	FLWG Fact Sheet updated.	FLWG Lead	Q4 each year
	participation.	Tewa ract sneet apaated.		
	Outreach materials	Number of derivative stakeholder products	FLWG Lead	Q4 each year
	distributed.	completed.		

Agency and/or Stakeholder	Activities Through FY18-Q4
FLWG Lead	3.3.9. Major updates to report. A FLWG panel including Lisa Johnson (USGS cooperator), Troy Warburton (USFS),
	Ron Salz (FWS), Bob Ratcliffe (NPS) and Doug Vandegraft (BOEM) hosted a 1.5 hour seminar for the DOI Office of
	Policy Analysis on July 9, 2018 about PAD-US 2.0 updates, FLWG source data development stories and the benefits
	of collaboration. The event was recorded and had been watched 485 times from July 18 to August 21, 2018. The unedited recording is available here:
	https://livestream.com/accounts/3723018/events/8246532/player?enableInfoAndActivity=true&defaultDrawer=&
	autoPlay=true&mute=false and the final edit will be available here:
	https://www.doi.gov/ppa/seminar_series/video/. In addition, USGS provided the Federal Recreation Council with
	a provisional version of federal lands from PAD-US 2.0 to update a Federal Recreation Map that was introduced
	during the seminar. The NPS supported development of the product through GreenInfo Network (also a USGS
	Cooperator on the PAD-US Team) with significant input from FLWG data stewards and recreation managers from
	NPS, USFS, FWS, BLM, NOAA, USBR and USACE. The map is available to download at:
	http://www.protectedlands.net/uses/new-federal-recreation-lands-poster/. USGS also provided the National
	Wildfire Coordinating Group with provisional federal lands from PAD-US 2.0 for integration into Wildfire Response
	Decision Tools. The FLWG co-chair, Lisa Johnson, also presented PAD-US 2.0 updates during the National
	Boundaries Group session at the 2018 Esri Federal Users Conference and Esri posted a very large PAD-US map in
	the plenary room. Also, GreenInfo Network has nearly completed, in close collaboration with the FLWG, base map
	guidance to support users as they apply PAD-US data. The guidance also includes sections for each FLWG agency
	to support agency specific updates as needed. Final guidance will be available from the FLWG website in Fall 2018.
	Last, the FLWG Fact Sheet was updated on June 6, 2018 to reflect recent accomplishments, current objectives and
	changes in agency representation. The fact sheet is available from the FLWG website banner here:
	https://communities.geoplatform.gov/ngda-govunits/federal-lands-workgroup/.

<u>Objective 3.4</u>: Continue collaboration between Census Bureau, the International Boundary Commission (IBC) and the International Boundary and Water Commission (IBWC) to complete the update of all international boundaries in Census Bureau's Digital Geographic Database of the United States.

<u>Anticipated Outcomes</u>: Census Bureau will have an accurate depiction of international boundaries of the United States for use by all those who need it.

Agencies, Bureaus, and Offices Involved: IBC & IBWC

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>3.4.1</b> . Update international boundaries in the MTDB through continued agency collaboration, meetings, and webinars between the Census Bureau, the International Boundary Commission (IBC), the International Boundary and Water Commission (IBWC), and the US Geological Survey (USGS).	See Action 1.4.6.			
<b>3.4.2.</b> Release IBC changes to international boundary. Update as needed.	Updates published as needed.	Number of updates published.	IBC	FY21-Q4
<b>3.4.3.</b> Incorporate recently resurveyed monument data from the US and Mexico border.	Data incorporation completed.	Percentage of data incorporation completed.	IBWC	FY18-Q4
	Release preliminary maps.	Percentage of maps released.	IBWC	FY18-Q4
Agency and/or Stakeholder	<b>Activities Through FY18-Q4</b>			
IBC	<b>3.4.2.</b> Published Version 1.3. (http://www.internationalboundarycommission.org/uploads/shapefile/us-canadaboundary-v1-3.zip) of the dataset during FY18-Q3.			
IBWC	<b>3.4.3.</b> No activity to report.			

<u>Objective 3.5</u>: The Governmental Units, and Administrative and Statistical Boundaries Theme community leverages the GeoPlatform to increase community membership and facilitate dataset management and communication across the theme.

<u>Anticipated Outcomes</u>: The Geospatial Platform (GeoPlatform) supports new and innovative web mapping services and tools, shared applications, visualization, and continuing improvements to geospatial data to increase use by all tribal governments, federal agencies, state, county, and local governments, academia, and the public.

Agencies, Bureaus, and Offices Involved: Theme Lead, NBG Lead, FLWG Lead, and the Tribal Boundaries Workgroup Lead

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>3.5.1.</b> The Governmental Units Theme will develop and maintain both public and private webpages for all established working groups within the theme (i.e. Tribal Boundaries Working Group and Federal Lands Working Group) on the GeoPlatform.	All webpages published and up-to-date.	Number of webpages published and up-to-date.	Theme Lead	Q2 and Q4 each year
<b>3.5.2.</b> Encourage and support all working group members to establish GeoPlatform accounts. Ensure that members have the appropriate level of access to the webpages on the GeoPlatform.	All current group members contacted.	Number of group members contacted.	Theme Lead	FY21-Q4
	All group members with accounts have correct level of access.	Number of accounts with correct level of access.	Theme Lead	FY21-Q4
Agency and/or Stakeholder	Activities Through FY18-Q4			
Theme Lead	<b>3.5.1.</b> 5 of 5 webpages are published.			
Theme Lead	<b>3.5.2.</b> The members of the National Boundaries Group continue to be encouraged to establish GeoPlatform accounts. As of end of FY18-Q4, all group members have the appropriate level of access.			

Table 5. Theme Implementation Plan.

## Appendix 1: Geographic Programs Timeline (Census Bureau)

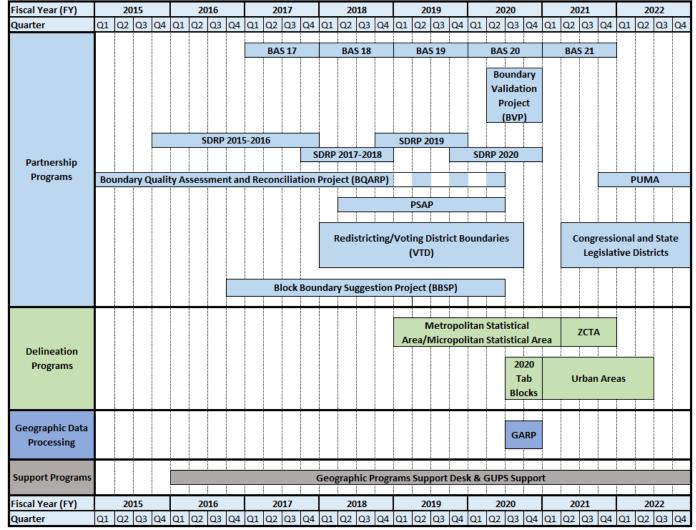


Figure 1. Geographic Programs Timeline (Census Bureau)

**Appendix 2: Glossary of Terms and Acronyms** 

ACRONYM	MEANING
ACS	American Community Survey
AIANNH	American Indian/Alaska Native/Native Hawaiian
ANRC	Alaska Native Regional Corporation
API	Application Program Interface
BAS	Boundary and Annexation Survey
BBSP	Block Boundary Suggestion Project
BCU	Basic Collection Unit
BGN	Board on Geographic Names
BIA	Bureau of Indian Affairs
BLM	Bureau of Land Management
воем	Bureau of Ocean Energy Management
BQARP	Boundary Quality Assessment and Reconciliation Project
BVP	Boundary Validation Program
CCD	Census County Division
CDBG	Community Development Block Grant
CDP	Census Designated Place
CRVRDO	Census Redistricting and Voting Rights Data Office
CSDGM	Content Standard for Digital Geospatial Metadata
DLG	Digital Line Graph
DoD	Department of Defense
DOI	Department of Interior
EPA	Environmental Protection Agency
FEMA	Federal Emergency Management Agency
FGDC	Federal Geographic Data Committee
FLWG	Federal Lands Working Subgroup
FTE	Full-time equivalent
FWS	Fish and Wildlife Service

ACRONYM	MEANING
FY	Fiscal Year
GARP	Geographic Area Reconciliation Project
GIS	geographic information system
GUPS	Geographic Update Partnership Software
HUD	Housing and Urban Development
IBC	International Boundary Commission
IBWC	International Boundary and Water Commission
ISO	International Organization for Standardization
JSON	JavaScript Object Notation
LMA	Lifecycle Maturity Assessment
LARs	Land Area Representations
MAF/TIGER	Master Address File/Topologically Integrated Geographic Encoding and Reference System
MOU	memorandum of understanding
MTDB	MAF/TIGER Database
NBG	National Boundaries Group
NCES	National Center for Education Statistics
NECTA	New England City and Town Area
NGDA	National Geospatial Data Asset
NOAA	National Oceanic and Atmospheric Administration
NWSCWA	National Weather Service County Warning Area
NRCS	Natural Resources Conservation Service
NPS	National Park Service
OMB	Office of Management and Budget
PAD-US	Protected Areas Database of the United States
РСОВ	Partnership Communications and Outreach Branch
PEP	Population Estimates Program
PLSS	Public Land Survey System
PSAP	Participant Statistical Areas Program
PUMA	Public Use Microdata Area

ACRONYM	MEANING
Q1, Q2, Q3, Q4	First, Second, Third, and Fourth Quarters of the Fiscal Year
RDP	Redistricting Data Program
REST	Representational State Transfer
SDRP	School District Review Program
SEHSD	Social, Economic & Housing Statistics Division
SLD	State Legislative District
TBD	to be determined
TIGER	Topologically Integrated Geographic Encoding and Reference System
TSAP	Tribal Statistical Areas Program
URL	Uniform Resource Locator
U.S.	United States
USDA	United States Department of Agriculture
USFS	United States Forest Service
USGS	United States Geological Survey
WFO	Weather Forecast Office
WFS	Web Feature Service
WMS	Web Mapping Services
VTD	Voting District
VTDP	Voting District Project
ZCTA	ZIP Code Tabulation Area
ZIP	Zone Improvement Plan